



Glass-epoxy profiles meet the requirements of the ZN-12 / PSE-2 standard

Glass-epoxy profiles



Glass-epoxy profiles are used as electrical insulating and construction elements in machines, devices and electrical apparatus (motors, transformers, generators).

Glass-epoxy profiles are made of E or ECR type glass fiber saturated with epoxy composition of heat resistance class F or H. Profiles are formed by pultrusion method. They can be cut into sections and, in the case of small diameters, wound into coils.

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Technical parameters				
General properties				
A type of resin	Epoxy resin			
Type of glass	E			
	ECR			
Working temperature	class F	-40°C ... +155°C		
	class H	-40°C ... +180°C		
Resistant to transformer oil	resistant			
Mechanical properties				
Modulus of elasticity	>40	GPa	DIN 53457	
Tensile strength	>850	MPa	DIN 53455	
Flexural strength	>350	MPa	DIN 53457	
Compressive strength	parallel to the axis	>500	MPa	DIN 53454
	perpendicular to the axis	>100	MPa	DIN 53454
Physical properties				
Glass content in the plastic (by weight)	>79	%	PN-EN ISO 1172	
Density	2,0	g/cm ³	PN-EN ISO 1183-1	
Glass transition temperature T _g	class F	>100	°C	PN-EN 61006
	class H	>130	°C	PN-EN 61006
Water absorption	<0,5	%	PN-EN ISO 62	
Colour	Natural			